

Classroom Project #1: Group Activity *

Connections between Tables, Graphs, Patterns and Expressions

How much can I save in a year? Saving rate \$150 per month.

- Starting with zero in the bank
- Starting with \$200.00 in the bank
- Initially owing someone \$150 then saving after the 1st month.

1. Create a table 13 rows x 3 column
2. Label Column 1 Time (months)
3. Label Column 2 Savings
4. Label Column 3 Expression (write your expression)

Example: Initially owing someone \$500.00

Time (Months)	Savings	$150x - 500$
0	-500	$150(0) - 500$
1	-350	$150(1) - 500$
2	-200	$150(2) - 500$

5. Fill the first columns from 0 to 12 months
6. Compute the total savings amount each month in column 2
7. Rewrite the expression with the variable replaced with the value in column 1.
8. Plot and label the ordered pairs (time, Savings) or (t, S) remember (x, y)
9. Connect the points with a dotted line.
10. Make sure you label your graph!!!
11. Decorate with crayons or markers.
12. Complete a reflection explaining the connections between the table, graph and the expression using vocabulary from Chapter 1.

Note: *If the project is not completed during the designated class time, the project must be complete at home or after school individually.

Please see the teacher for guidance and graph paper prior to beginning project.

Reflection Must be written or type using the new vocabulary terms (see your notes or website for more information)

1. Project Title: How Much can I save?
2. What did you observe when you created the table?
3. What did you observe when your created the graph?
4. Did you have any difficulties and why?
5. Can you see the connections between the table, graph and expression?
6. Did this project help you understand the new vocabulary terms.

Grading Rubric

A+ Coordinate plane and table are marked and labeled appropriately. Errors are corrected and identified in reflection report. Table is complete.

A Coordinate plane is partially labeled, points are not labeled. Errors are corrected and identified in reflection report. Table is complete.

B+ Coordinate plane is partially labeled, points are not labeled. Errors are corrected and identified in reflection report. Table is incomplete.

B Coordinate plane is not labeled, points are not labeled. Errors are corrected and identified in reflection. Table is incomplete.

C+ Reflection report is not completed and turned into teacher.